NEORMA IN REPORT FORMATION

CENTRAL INTELLIGENCE AGENCY

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S-E-C-R-E-T

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COUNTRY		East Germany/US	SSR.	REPORT			
SUBJECT	;	Russian Interes Production of V Koepenick		DATE DISTR.		June 1955	25X1
DATE OF INFO.	,	wee better		REQUIREMENT			25 X 1
PLACE ACQUIRED				REFERENCES	E) / A A T E		25 X 1
DATE ACQUIRED			· · · · · · · · · · · · · · · · · · ·	This is UN	EVALUATEI	O Information	20/1
	SOURCE E	VALUATIONS ARE D	EFINITIVE. APPRAI	SAL OF CONTENT I	S TENTATIVE.		_
1. The supple of	ships' plied to equipped plied in	2	EB Funkwork Ke zes fer the se ows: 1 Quarts 205 kc 227	epenick during me frequencies frequency	1955, will as those s Transe 410 ke	each ets	5X1
	•	3	1262	•	500 *	•	
b.	Intermediates	ediate frequenc 1 2 3	1 08 835 1031 1262.5		1650 W 2182 W 2535 W	! !	
c.	High fo	requencies 1	3670,3510,32 12420 & 1 6 56	80, kcs 0 kcs			
i.	*	2 3	2023.83,6250 2103.83,1260				
and	i alse 1	with reserve qu	artses for hig	h frequencies	as follows:		
	Quart:	5 5	Quarts 1 1560 kes 2085 kes		Transmitte 3150 kes 4170 kes	r frequency	e e
. (The set	sse are	in addition to	the 1.5 mcs	ealibration qua	rts supplie	d with each	•
		ilbration table s are to be sp			ts, the fel	lowing	
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STATE X	ARMY	X NAVY X	AIR X	FBI AEC			٦
				Washington distribution in	dicated by "X"; Fie	ld distribution by "#".	<u>, </u>

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- a. Medium frequencies 425,480 & 512 kcs
- b. Intermediate frequencies 2546,2566,2625,2635, 2650,2815 & 2900 kcs
- c. High frequencies

4120, 12 82,6276,6310,8240,8310,8364, 11040,13552,16620 & 16720 kcs

HF filters for transmitters

- 3. VEB Funkwerk Koepenick have effered the USSR HF filters with the specifications set out below. Such filters are fitted to transmitters when their aerials and those of shert-wave receivers are close tegether and are required to operate at the same time. They have a dual function:
 - a. to step high voltages being induced by the transmitter in the receiver aerial and passing into the receiver, and
 - b. to cut off, by short-circuiting, the receiver input when the voltage developing at that point exceeds a prescribed maximum.

Technical data

Pass band width
Characteristic impedance
Attenuation between 3 and 24 mcs
at 600 kcs
Protective ranges

Inductive coupling
Automatic at maximum voltage
Minimum voltage for attenuation
Attenuation
Tubes
Power supply
Current requirement
Fused at
Dimensions chassis:

Dimensions chassis: table instrument:

Weight Specification number f ≥ 3 mcs
60 ohms
0.1 ± 0.06 neper
7.8 neper or 68 db.
3 to 7 mcs
6 * 17 mcs
10 * 24 mcs
mutual inductance in 4 stages

about 2 volts effective
5 neper or hi db.
One 6H6
220 V at 50 cs.
about 120 m A
250 m x 168 mm x 275 mm
550 mm x 190 mm (+ 30 mm fer
rubber feet) x 310 mm (+51 mm
for the cable lead-in)
about 23 kg.

1671.005 - 00001 1671.011 - 00001

Audio-frequency analyser A-11

i. The instrument provides for the analysis by frequency and by amplitude of the complete frequency spectrum, from 20 cs to 20 kcs.

Technical datas
Operating voltage
Power requirement
Input resistance
Input capacitance
Lead resistance
Tubes (for analyzer component)

220 velts at 50 cs.
about 130 watts
1 Megohm
40 & F
about 3 k ohms
five ECC 91
one 80
** 80
** 6 A7
** 280 4 6

* 280/µ0 * 70/6

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S-E-C-R -E-T 25X1 -3-Tubes (for indicator component) ome හිට two EAA 91 one 200 91 ***** 280/40 Dimensions 570mm x 551 mm x 356 mm Weight 65 kg. Miscellaneous instruments 5. a. Calibration potentiometer: the USSR Trade Delegation is pressing for the completion of this order and a report has been submitted on the work done in the third quarter of 1954; a supplementary account for expenditure during development has also been submitted to the delegation2. b. Echolots: a report has been submitted on the Atlas echolot. Eleven echolots are currently en order for the USSR. Universal pulse generator: a supplementary account of expenditure during development has been submitted to the Soviet Trade Delegation, who are pressing for the completion of this order. d. 20 lugger wireless sets have been ordered by the office of the Soviet Sea Register in Rostock. e. 250 anemometers were delivered to the USSR in November 1954. f. Cases of radio components are being delivered to the USSR. The contents are in accordance withma upproved list. g. Communist China has ordered 12 oscillographs of type 00 2 I d. Documentation accompanying this order is to be translated into English. Material-testing for the USSR Sea Register, Rostock 6. A sample of insulating material to be used as waterproofing for the outer covering of the main radio cabin of the ship SOVIETSKI SOMUZ was subjected to HF testing at VEB Funkwerk Koepenick on 13 December 1954 with the following results: a. DC test: broke down at 12,000 welts b. AC test at 50 cycles: broke down at 8,000 volts c. AC test at 500 kcs: broke down at 4,000 volts For the purpose of comparison, a test was made on the material to be used for the protection of the transmitter, with the following results: a. DC test: broke down at 35,000 wolts b. AC test at 50 cycles: broke down at 32,000 volts
c. AC test at 500 kcs: broke down at 600 volts 25X1 the short-wave section of this instrument has had 25X1 to be redesigned. S-E-C-R-E-T

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